

DERWENT ABSTRACT FOR: JP 04-279697 (Asahi), published 5 Oct 1992:

L2 ANSWER 12 OF 14 WPIINDEX COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1992-378284 [46] WPIINDEX

DOC. NO. NON-CPI: N1992-288387

DOC. NO. CPI: C1992-168112

TITLE Resin sliding part material, having high weld strength and resistance to friction and wear - comprises continuous polyphenylene ether phase contg. dispersed polyclefin with aggregated vinyl aromatic conjugated diene copolymer.

DERWENT CLASS: A18 A25 A38 Q62 Q64

PATENT ASSIGNEE(S): (ASAHI) ASAHI CHEM IND CO LTD

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 04279697	A	19911005 (199246)*		3	<--
JP 2982878	B2	19911129 (200002)		3	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 04279697	A	JP 1991-67780	19910308
JP 2982878	B2	JP 1991-67780	19910308

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 2982878	B2 Previous Publ.	JP 04279697

PRIORITY APPLN. INFO: JP 1991-67780 19910308

AN 1992-378284 [46] WPIINDEX

AB JP 04279697 A UPAB: 19931006

The material consists of (A) a continuous phase of a polyphenylene ether(s) and (B) a dispersoid phase consisting of (1) a dispersed polyclefin(s) of a minor axis of practically up to 0.5 micron on which one or more of vinyl aromatic-conjugated diene copolymers and their hydrogenated prods. are aggregated and (2) one or more of the copolymers of a minor axis of practically up to 0.3 micron dispersed in simple form.

USE/ADVANTAGE - Owing to the finely dispersed structure contg. the polyclefin(s) and compatibiliser(s), the material has reduced layer flexibility, high weld strength and good sliding characteristics, esp. high resistance to friction and wear.

In an example, polyphenylene ethers include poly(2,6-dimethyl-1,4-phenylene ether), poly(2-methyl-6-ethyl-1,4-phenylene ether) and poly(2,6-dichloro-1,4-phenylene ether). Polyphenylene ether copolymers are also available, including poly(2,6-dimethyl-1,4-phenylene ether)-2,6-diethylphenol-2,6-trimethylphenol copolymer. The vinyl aromatic spcl. for the compatibiliser is pref. one or a mixt. of styrene, alpha-methylstyrene, vinyl toluene, p-tert.-butyl styrene and/or diphenyl ethylene.

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